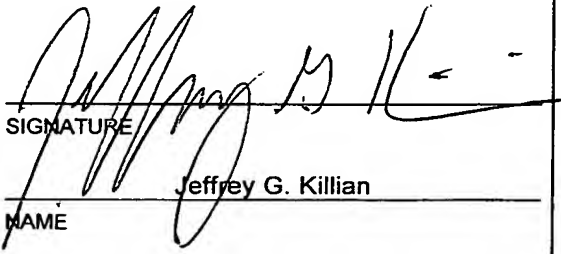


Substitute for Form PTO-1390		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371	ATTORNEY'S DOCKET NUMBER 003277-057 U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/553179
INTERNATIONAL APPLICATION NO. PCT/FI2004/050041	INTERNATIONAL FILING DATE 19 April 2004	PRIORITY DATE CLAIMED 17 April 2003	
TITLE OF INVENTION POROUS SHEET AND SUBSTRATE HAVING POROUS SHEET(S) FOR TREATING EXHAUST GASES OF COMBUSTION ENGINES			
APPLICANT(S) FOR DO/EO/US Aulis VAKKILAINEN, Reijo LYLYKANGAS, Ritva HEIKKINEN, Teuvo MAUNULA, Matti HARKONEN, and Ari LIEVONEN			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
1. <input checked="" type="checkbox"/> This is a FIRST submission to items concerning a filing under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (22) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected by the expiration of 19 months from the priority date (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input checked="" type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input checked="" type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input checked="" type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).			
Items 11 to 21 below concern document(s) or information included:			
11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input checked="" type="checkbox"/> A FIRST preliminary amendment. 14. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 15. <input checked="" type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A change of power of attorney and/or address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 C.F.R. 1.821 - 1.825. 18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 20. <input checked="" type="checkbox"/> Other items or information: <u>Form PCT/IB/304, Form PCT/IB/308 (2), Written Opinion dated 08-11-2004, Response to Written Opinion with amended claims dated 02-15-2005, Second Written Opinion with amended claims dated 04-22-2005, Response to Second Written Opinion dated 06-30-2005, International Preliminary Report on Patentability dated July 26, 2005, Finnish Office Action dated January 5, 2004; and Comparison Document.</u>			

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<p>21. <input checked="" type="checkbox"/> Applicant(s) requests that the published application include the following assignment information: <u>ECOCAT OY, Vihtavuori, Finland</u></p> <p>22. <input checked="" type="checkbox"/> The following fees are submitted:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4">Basic Filing Fee (1631)</td> <td style="width: 15%; text-align: right;">\$ 300.00</td> <td style="width: 15%;"></td> </tr> <tr> <td colspan="4"> Surcharge of \$130.00 (1617) for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)). </td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">CLAIMS</td> <td style="text-align: center;">NUMBER FILED</td> <td style="text-align: center;">NUMBER EXTRA</td> <td style="text-align: center;">RATE</td> <td style="text-align: right;">\$</td> <td></td> </tr> <tr> <td>Total Claims</td> <td style="text-align: center;">28</td> <td style="text-align: center;">-20 = 8</td> <td style="text-align: right;">x \$50.00 (1615)</td> <td style="text-align: right;">\$ 400.00</td> <td></td> </tr> <tr> <td>Independent Claims</td> <td style="text-align: center;">2</td> <td style="text-align: center;">-3 = 0</td> <td style="text-align: right;">x \$200.00 (1614)</td> <td style="text-align: right;">\$ 0.00</td> <td></td> </tr> <tr> <td colspan="4">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td style="text-align: right;">+ \$360.00 (1616)</td> <td></td> </tr> <tr> <td colspan="4">Examination Fee</td> <td style="text-align: right;">+ \$200.00 (1633)</td> <td style="text-align: right;">\$ 200.00</td> </tr> <tr> <td colspan="4">Search Fee</td> <td style="text-align: right;">+ \$500.00 (1632)</td> <td style="text-align: right;">\$ 500.00</td> </tr> <tr> <td colspan="4">App. Size Fee (add \$250.00 for each add'l 50 sheets exceeding 100 sheets)</td> <td></td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL OF ABOVE CALCULATIONS =</td> <td style="text-align: right;">\$ 1,400.00</td> <td></td> </tr> <tr> <td colspan="4"> <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2. </td> <td style="text-align: right;">+</td> <td style="text-align: right;">\$ 700.00</td> </tr> <tr> <td colspan="4" style="text-align: right;">SUBTOTAL =</td> <td style="text-align: right;">\$ 700.00</td> <td></td> </tr> <tr> <td colspan="4"> Processing fee of \$130.00 (1618) for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)). </td> <td style="text-align: right;">\$ 0.00</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL NATIONAL FEE =</td> <td style="text-align: right;">\$ 700.00</td> <td></td> </tr> <tr> <td colspan="4"> Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 (8021) per property + </td> <td></td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right;">TOTAL FEES ENCLOSED =</td> <td style="text-align: right;">\$ 700.00</td> <td></td> </tr> <tr> <td colspan="4"></td> <td style="text-align: right;">Amount to be refunded :</td> <td></td> </tr> <tr> <td colspan="4"></td> <td style="text-align: right;">charged :</td> <td></td> </tr> </table> <p>a. <input checked="" type="checkbox"/> A check in the amount of <u>\$ 700.00</u> to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. <u>02-4800</u> in the amount of _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>02-4800</u>. A duplicate copy of this sheet is enclosed.</p> <p>d. <input type="checkbox"/> Charge _____ to credit card. Form PTO-2038 is attached.</p> <p>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</p> <p>SEND ALL CORRESPONDENCE TO:</p> <p>BUCHANAN INGERSOLL PC P.O. Box 1404 Alexandria, Virginia 22313-1404 (703) 836-6620</p> <div style="text-align: right;"> <p>SIGNATURE </p> <p>NAME <u>Jeffrey G. Killian</u></p> <p>50,891 October 13, 2005</p> <p>REGISTRATION NO. DATE</p> </div>	Basic Filing Fee (1631)				\$ 300.00		Surcharge of \$130.00 (1617) for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).						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